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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
09 807,721	04 18 2001	Henry Daniell	1463- PCT-US-00	4041
75.	90 09 10 2002			
Schnader Harrison Segal & Lewis IP Department 36th Floor			EXAMINER	
			KUBELIK, ANNE R	
1600 Market Street Philadelphia, PA 19103			ART UNIT PAPER NUMBER	
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			DATE MAILED: 09.10 2002	C

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summany	09/807,721	DANIELL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Anne Kublik	1638				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1 13 after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	within the statutory minimum of thirty (30) days all apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely the mailing date of this communication O (35 U S C § 133)				
1) Responsive to communication(s) filed on 18 A	pril 2001 .					
2a) This action is FINAL . 2b) Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-52 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-52</u> are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accep	ted or b)⊡ objected to by the Exar	miner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in rep	•					
12) The oath or declaration is objected to by the Exa	aminer.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in Application	on No				
 3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the certified copies of the prior application. 	eau (PCT Rule 17.2(a)).	-				
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(e	e) (to a provisional application).				
a) The translation of the foreign language pro						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	Patent Application (PTO-152)				
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Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-7 and 28-33, drawn to a plastid transformation vector comprising a 5' plastid DNA sequence, a plastid promoter, a selectable marker sequence, a sequence encoding a single-chain variable fragment, a transcription termination region, and a 3' plastid DNA sequence, and a method for transforming plants with the vector.

Group II, claim(s) 1, 8-11, 28, 34-36 and 41-45, drawn to a plastid transformation vector comprising a 5' plastid DNA sequence, a plastid promoter, a selectable marker sequence, a sequence encoding a secretory immunoglobulin, a transcription termination region, and a 3' plastid DNA sequence, and a method for transforming plants with the vector.

Group III, claim(s) 12, drawn to plastid transformation vector pLD.

Group IV, claim(s) 13-17 and 22-27, drawn to a composition comprising plant material and an immunoglobulin.

Group V, claim(s) 18-21, drawn to a plastid comprising a DNA encoding a immunoglobulin in the form of a polypeptide multimer, and plants comprising the plastid.

Group VI, claim(s) 37-40 and 47-49, drawn to plastid transformation vector comprising more than one immunoglobulin coding sequence, and plants transformed with the vector.

Group VII, claim(s) 46, drawn to plastid transformation vector pZS.

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Group VIII, claim(s) 50-52, drawn to a universal plastid transformation vector comprising a 5' plastid spacer sequence, a plastid promoter, a selectable marker sequence, a sequence encoding an immunoglobulin, a transcription termination region, a 3' plastid spacer sequence, and flanking sequences, and plants transformed with the vector.

The inventions listed as Groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: These groups fail to share a special technical feature.

The technical feature shared by the Groups is plastid transformation vectors encoding immunoglobulins. Mayfield et al (WO 98/31823, cited in the PCT search report) teaches this technical feature. Mayfield et al teach plastid transformation vectors comprising a dimeric IgA gene or a recombinant single chain antibody to tetanus toxin. These vectors have 5' and 3' flanking regions, the psbA promoter, 5' untranslated region and transcription termination region, and a selectable marker sequence (Fig. 11; pg 77, lines 6-14; pg 65, lines 15-23). Thus, Mayfield et al renders claim 1, among others, not novel. The technical feature linking the groups is therefore not specia,l and the Groups are not so linked under PCT Rule 13.1.

The different plastid transformation vectors of the different Groups have different components and are thus not coextensive.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (703) 308-5059. The examiner can normally be reached Monday through Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amy Nelson, can be reached at (703) 306-3218. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9307 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the patent analyst, Kimberly Davis, at (703) 305-3015.

Anne R. Kubelik, Ph.D. September 4, 2002

AMY J. NELSON, PH.D SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600

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